

## Vermont 2006 Component Cost Data (Rutland Zip Code Area 057)

**Unit Definitions:**    **S.Y.** (Square Yards),    **M.S.F.** ( 1,000 Square Feet),    **S.F.** (Square Feet),    **L.F.** (Linear Feet),    **C.Y.** (Cubic Yard),    **EA.** (Each),    HR.  
**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

### PL-566

Number	Item	Unit
1.2.1	0-10-40- .2 boron	TON
1.2.2	10-10-10	TON
1.2.3	10-10-10 (50 lb bags)	TON
1.2.4	10-20-10	TON
1.2.5	14-30-15 (corn starter)	TON
1.2.6	14-30-15 corn starter	TON
1.2.7	23-12-18	TON
1.2.8	Ammonium sulfate (NH4) 2S04 0-0-20 w/24% sulfur	TON
1.2.9	DAP 18-46-0	TON
1.2.10	Foliar nutrient application on vegetables, (not including equipment)	ACRE
1.2.11	Hi-Mag lime	TON
1.2.12	Lime (bulk)	TON
1.2.13	Lime (calcium) delivered and spread	TON
1.2.14	Lime (calcium) in 50# bags	TON
1.2.15	Lime-Ash	TON
1.2.16	MAP 11-52-0	TON
1.2.17	Nitrogen (chemical)	LB
1.2.18	Organic Soil Amendments - Chilean Nitrate 16-0-0	TON
1.2.19	Organic Soil Amendments - Nitrogen	LB
1.2.20	Organic Soil Amendments - Phospate rock 0-30-0 (6-8%avilable)	TON
1.2.21	Organic Soil Amendments - Phosphorus (plant available form)	LB
1.2.22	Organic Soil Amendments - Potassium	LB
1.2.23	Organic Soil Amendments - Sulphate of Potash 0-0-52	TON
1.2.24	Organic Soil Amendments - Sul-Po-Mag 0-0-22 11Mg, 22S	TON
1.2.25	Phosphorus	LB
1.2.26	Potash 0-0-60	TON
1.2.27	Potassium	LB
1.2.28	Urea 46-0-0	TON
1.2.29	Herbicides, cost per acre (for corn)	ACRE
1.2.30	Soil test, (standard agricultural soil test)	EA.
1.3.1	"Conservation Mix"	LB.
1.3.2	"Erosion Control Mix" (organic)	LB.
1.3.3	"Pasture Mix" (Typical Cool Season) (organic)	LB.

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Number	Item	Unit
1.3.4	"Wildlife Mix"	LB.
1.3.5	Alfalfa	LB.
1.3.6	Alfalfa (leaf hopper resistant)	LB.
1.3.7	Alfalfa (organic)	LB.
1.3.8	Annual ryegrass	LB.
1.3.9	Annual Ryegrass (organic)	LB.
1.3.10	Barley (organic)	LB.
1.3.11	Birdsfoot trefoil	LB.
1.3.12	Birdsfoot Trefoil (organic)	LB.
1.3.13	Buckwheat (organic)	LB.
1.3.14	Chickory (organic)	LB.
1.3.15	Clover - Alsike	LB.
1.3.16	Clover - Alsike (organic)	LB.
1.3.17	Clover - Dutch white (organic)	LB.
1.3.18	Clover - Ladino	LB.
1.3.19	Clover - Mammoth red	LB.
1.3.20	Clover - Red	LB.
1.3.21	Clover - Red (organic)	LB.
1.3.22	Clover - White	LB.
1.3.23	Cool season grass establishment-includes lime, fert. & prep.	LB.
1.3.24	Creeping Red Fescue	LB.
1.3.25	Crownvetch (requires approval)	LB.
1.3.26	Hairy Vetch	LB.
1.3.27	Hairy Vetch (organic)	LB.
1.3.28	Kentucky Bluegrass	LB.
1.3.29	Legume Cereal Mix, (Drilled) (organic)	LB.
1.3.30	Millet (wildlife) (requires approval)	LB.
1.3.31	Mustard (organic)	LB.
1.3.32	Oats, bulk	LB.
1.3.33	Oats (organic)	LB.
1.3.34	Orchardgrass	LB.
1.3.35	Orchardgrass (organic)	LB.
1.3.36	Perrenial Ryegrass (Pennfine)	LB.

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Number	Item	Unit
1.3.37	Rape (organic)	LB.
1.3.38	Reed Canarygrass (requires approval)	LB.
1.3.39	Smooth Bromegrass	LB.
1.3.40	Sudangrass (organic)	LB.
1.3.41	Tall Fescue (Ky-31) (requires approval)	LB.
1.3.42	Tall Fescue (Low Endophyte ) (requires approval)	LB.
1.3.43	Tall fescue (Low Endophyte) (organic) (requires approval)	LB.
1.3.44	Timothy	LB.
1.3.45	Timothy (organic)	LB.
1.3.46	Triticale (organic)	LB.
1.3.47	Wetland Mix	LB.
1.3.48	Wildflower mix	LB.
1.3.49	Winter Cereal Rye (Drilled) - soil prep. not included	LB.
1.3.50	Winter Cereal Rye (in 50 lb bulk bags)	LB.
1.3.51	Winter Cereal Rye (organic)	LB.
1.3.52	Winter Cereal Rye (small quantity)	LB.
1.4.1	Big Bluestem	LB.
1.4.2	Deertongue	LB.
1.4.3	Indiangrass	LB.
1.4.4	Little Bluestem	LB.
1.4.5	Panicgrass, Atlantic coastal	LB.
1.4.6	Sand Lovegrass	LB.
1.4.7	Switchgrass	LB.
1.4.8	Native Grass Mix (Warm Season)	LB.
1.4.9	Native Grass Mix (Warm Season) (organic)	LB.
1.13.1	Mulch, hay - hand applied (1-1.5 acre/day/person)	ACRE
1.13.2	Mulch, hay, 1" deep, power mulcher, small	M.S.F.
1.13.3	Mulch, hay, 1" deep, power mulcher, large	M.S.F.
1.13.8	Hydroseeding / Mulching on critical area	ACRE
1.13.9	Mulch, hay - 40# bale, material cost only	EA.
1.13.10	Mulch, wood chips	S.Y.
1.14.1	Seed, Lime, Fertilize & Mulch VT Spec. #52	ACRE
1.14.2	Seed, broadcasting	ACRE

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Number	Item	Unit
1.14.3	Seed, broadcasting by hand	ACRE
1.14.4	Seeding, limestone, 50 lbs per M.S.F., hand push spreader	M.S.F.
1.14.5	Seeding, grass seed, 4.5 lbs per M.S.F., hand push spreader	M.S.F.
1.15.1	Conservation Cover (327)-plow, harrow, lime, NPK, weed spray & seed	ACRE
1.15.2	Contour Buffer Strips (332)-plow, harrow, orchardgrass & clover	ACRE
1.15.3	Contour Farming (330)-plow & harrowing	ACRE
1.15.4	Cover & Green Manure Crop (340)- Rye drilled	ACRE
1.15.5	Critical Area Planting (393)-plow, harrow, lime, NPK, & seed	ACRE
1.15.6	Critical Area Planting(2) (393)-plow, harrow, lime, NPK, & consv. mix	ACRE
1.15.7	Field Border (386)-plow, harrow, lime, NPK & seed	ACRE
1.15.8	Filter Strip (Agronomic 393)-plow, harrow, lime, NPK, & consv. mix	ACRE
1.15.9	Pasture & Hayland Planting (512)-plow, harrow, lime, NPK & seed	ACRE
1.15.10	Pasture & Hayland Planting(2) (512)-plow, harrow, NPK & seed	ACRE
1.15.11	Pasture & Hayland Planting(3) (512)-organic NPK and clover	ACRE
1.15.12	Residue Mngt (Mulch Till) (329B) - chisel plow	ACRE
1.15.13	Residue Management (No Till/Strip Till) (329A)-no till and spraying	ACRE
1.15.14	Riparian Herbaceous Buffer (390) - plow, harrow, lime, NPK & conser. Mix	ACRE
1.15.15	Riparian Herbaceous Buffer(2) (390) - spray, no-till and seed	ACRE
1.18.1	Site preparation - mechanical	ACRE
1.18.2	Site preparation- chemical	ACRE
1.18.3	Tree or shrub, deciduous - 1-2 ft bare root	EA.
1.18.4	Tree or shrub, deciduous - 2-3 ft bare root	EA.
1.18.5	Tree or shrub, deciduous - 3-4 ft bare root	EA.
1.18.6	Tree or shrub, deciduous - 4-5 ft bare root	EA.
1.18.7	Tree or shrub, conifer - 1-2 ft bare root	EA.
1.18.8	Tree or shrub, conifer - 2-3 ft bare root	EA.
1.18.9	Tree or shrub, conifer - 3-4 ft bare root	EA.
1.18.10	Tree or shrub, conifer - 4-5 ft bare root	EA.
1.18.11	Tree or shrub, deciduous - 6-8 ft balled root	EA.
1.18.12	Tree or shrub, deciduous - 8-10 ft balled root	EA.
1.18.13	Tree or shrub, deciduous - 10-12 ft balled root	EA.
1.18.14	Tree or shrub, conifer - 3-4 ft balled root	EA.
1.18.15	Tree or shrub, conifer - 4-5 ft balled root	EA.

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Number	Item	Unit
1.18.16	Tree or shrub, conifer - 5-6 ft balled root	EA.
1.18.17	Tree or shrub, conifer - 6-8 ft balled root	EA.
1.18.18	Tree or shrub - 1-2 ft bare root, native	EA.
1.18.19	Tree or shrub - 3-5 ft bare root, native	EA.
1.18.20	Tree or shrub - 5-7 ft bare root, native	EA.
1.18.21	Tublings, 6" conifers	EA.
1.18.22	Tublings, 6" native	EA.
1.18.23	Tree protectors with ties	EA.
1.18.24	Brush mats with staples - 2x2 ft	EA.
1.18.25	Brush mats with staples - 3x3 ft	EA.
1.18.26	Stakes - 4 ft hardwood	EA.
1.18.27	Labor - planting tree or shrub only	EA.
1.18.28	Labor - planting tree or shrub with protector, mat and stake	EA.
2.1.1	Asphalt, parking lots & driveways, binder course, 3" thick	S.F.
2.1.2	Asphalt, parking lots & driveways, binder course, 4" thick	S.F.
2.1.3	Asphalt, parking lots & driveways, binder course, 2" thick	S.F.
2.1.4	Asphalt, parking & driveway, 6" stone base, 2" binder course, 1" topping	S.F.
2.1.5	Asphalt, parking lots & driveways, sand finish course, 3/4" thick	S.F.
2.1.6	Asphalt, parking lots & driveways, sand finish course, 1" thick	S.F.
2.1.7	Saw cutting, asphalt, up to 3" deep	L.F.
2.1.8	Saw cutting, asphalt, over 1000', each additional inch of depth over 3"	L.F.
2.1.9	Fine grade, small area, to be paved with grader	S.Y.
2.1.10	Fine grade, for roadway, large area, 6,000 S.Y. or more	S.Y.
2.4.2	Pumping, Concrete, Footings & Slabs, 18.75cy/hr (include drive time)	HR.
2.4.3	Pumping, Concrete, Walls, 12.5cy/hr (include drive time)	HR.
2.5.0	Unreinforced Concrete	C.Y.
2.8.2	Hopper, Precast, 6' dia. x 6' deep, delivered, no excavation	EA.
2.8.3	Hopper, Precast, 6' dia. x 8' deep, delivered, no excavation	EA.
2.8.4	Conc. Hopper, 6'x6'x8', 8" Wall & Floor, No Exc. or Drainage, 6" Drainfill	E.A.
2.9.1	Curb, Concrete, 6"x24"h, 3000psi, #4 @ 12" E.W., Curing compd. (LF)	L.F.
2.9.2	Curb, Concrete, 6"x12"h, 3000psi, #4 @ 12" E.W., Curing compd. (LF)	L.F.
2.9.3	Curb, Concrete, 8"x12"h, 3000psi, #4 @ 12" E.W., Curing compd. (LF)	L.F.
2.9.4	Slab, Concrete, 4", 3000psi, Curing cmpd., saw 10' o.c.	C.Y.

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Number	Item	Unit
2.9.5	Curb, Concrete, 8"x24"h, 3000psi, #4 @ 12" E.W., Curing compd. (LF)	L.F.
2.9.6	Curb, Concrete, Speed Bump, 3000psi, #4 @ 12" E.W., Curing compd. (LF)	L.F.
2.9.8	Concrete finishing, floor, dustproofing, epoxy coating, clear, 1 coat	S.F.
2.9.9	Concrete finishing, floor, dustproofing, epoxy coating, clear, 2 coats	S.F.
2.9.10	Slab, Concrete, 4", 3000psi, WWF, Curing compd., saw 10' o.c.	C.Y.
2.9.11	Slab, Concrete, 5", 3000psi, Curing compd., #4@18" e.w.	C.Y.
2.9.14	Concrete finishing, walls, includes breaking ties and patching voids	S.F.
2.9.15	Construction Joint - floor, sawed, backer rod and waterstop	EA.
2.10.1	4'-8' Conc. Wall, 3000 psi, 8" thick, #4@12" E.W., Chute, Curing Compound	C.Y.
2.10.2	4'-8' Conc. Wall, 3000 psi, 8" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.3	4'-8' Conc. Wall, 3000 psi, 8" thick, #4@12" V, #4@6" H, Chute, Curing Compd.	C.Y.
2.10.4	4'-8' Conc. Wall, 3000 psi, 8" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.10.5	4'-8' Conc. Wall, 4000 psi, 8" thick, #4@12" E.W., Chute, Curing Compound	C.Y.
2.10.6	4'-8' Conc. Wall, 4000 psi, 8" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.7	4'-8' Conc. Wall, 4000 psi, 8" thick, #4@12" V, #4@6" H, Chute, Curing Compd.	C.Y.
2.10.8	4'-8' Conc. Wall, 4000 psi, 8" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.10.9	10' Conc. Wall, 3000 psi, 10" thick, #4@12" E.W., Chute, Curing Compound	C.Y.
2.10.10	10' Conc. Wall, 3000 psi, 10" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.11	10' Conc. Wall, 3000 psi, 10" thick, #4@12" V, #4@6" H, Chute, Curing Compd.	C.Y.
2.10.12	10' Conc. Wall, 3000 psi, 10" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.10.13	10' Conc. Wall, 4000 psi, 10" thick, #4@12" E.W., Chute, Curing Compound	C.Y.
2.10.14	10' Conc. Wall, 4000 psi, 10" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.15	10' Conc. Wall, 4000 psi, 10" thick, #4@12" V, #4@6" H, Chute, Curing Compd.	C.Y.
2.10.16	10' Conc. Wall, 4000 psi, 10" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.10.17	12' Conc. Wall, 3000 psi, 10" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.18	12' Conc. Wall, 4000 psi, 10" thick, #5@12" E.W., Chute, Curing Compound	C.Y.
2.10.19	12' Conc. Wall, 3000 psi, 10" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.10.20	12' Conc. Wall, 4000 psi, 10" thick, #5@12" V, #5@6" H, Chute, Curing Compd.	C.Y.
2.11.1	Concrete Footing, 10" thick, > 3' wide, reinforced, #4 & #5	C.Y.
2.11.2	Concrete Footing, 10" thick, < 3' wide, reinforced, #4 E.W. Typ.	C.Y.
2.12.0	Waterstop, Bentonite, in place	L.F.
2.12.1	Waterstop, PVC, ribbed, 3/16" thick x 6" wide	L.F.
2.12.2	4" Pipe Seal, modular, i.e. Linkseal - material cost only	EA.

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Number	Item	Unit
2.13.1	Demolition-footing, floor, concrete slab on grade, plain concrete, 4" thick	S.F.
2.13.2	Demolition-footings, floors, concrete slab on grade, concrete, wwfb, 4" thick	S.F.
2.13.3	Demolition-footings, floors, concrete slab on grade, plain concrete, 6" thick	S.F.
2.13.4	Demolition-footings, floors, concrete slab on grade, concrete, wwfb, 6" thick	S.F.
2.13.5	Minor demolition, slab on grade, plain, remove, excludes hauling	C.Y.
2.13.6	Minor demolition, slab on grade , wwfb, 8" thick, remove, exc. hauling	C.Y.
2.13.7	Minor demolition, slab on grade , rebar, 8" thick, remove, exc. hauling	C.Y.
2.13.8	Cutout demolition, slab on grade, non-reinforced, to 6" thick, under 8 S.F., excludes loading and disposal	S.F.
2.13.9	Cutout demolition, slab on grade, non-reinforced, to 6" thick, 8-16 S.F., excludes loading and disposal	S.F.
2.13.10	Saw cutting, concrete slabs, mesh reinforcing, per inch of depth to 3" deep	L.F.
2.13.11	Saw cutting, concrete slab, rebar, each additional inch of depth over 3"	L.F.
2.14.0	Block, Concrete, 2'x2'x4'	EA.
2.14.1	Block, Concrete, 2'x2'x6'	EA.
2.15.0	Fibrous reinforcing, synthetic fibers, add to concrete, 1-1/2 lb. per C.Y.	C.Y.
2.15.1	Concrete testing, compressive strength test, incl. delivery to lab per cylinder	Ea.
2.15.2	Concrete testing, compressive strength test, incl. picked up by lab, average	Ea.
2.15.3	Fibrous reinforcing, steel fibers, add to concrete, 25 lb. per C.Y.	C.Y.
2.15.4	Winter Protection, for heated ready mix, includes material only, add, max.	C.Y.
2.15.5	Winter Protection, for heated ready mix, includes material only, add, min.	C.Y.
2.15.6	Winter Protection, protecting concrete and temp heat	M.S.F.
2.15.8	Winter Protection, temp. shelter, slab on grade, wood frame and poly, max.	M.S.F.
2.15.9	Winter Protection, temp. shelter, slab on grade, wood frame and poly, min.	M.S.F.
3.1.0	Chisel Plowing	ACRE
3.1.1	Disk Plow	ACRE
3.1.2	Harrowing	ACRE
3.1.3	Harrowing w/ cultipacker	ACRE
3.1.4	Moldboard Plow	ACRE
3.1.5	Moldboard Plow - Sod	ACRE
3.1.6	Cultipacking (14')	ACRE
3.1.7	Cultivating	ACRE
3.1.8	Conventional Seeding	ACRE
3.1.9	No-Till Drill (15')	ACRE
3.2.1	Mowing	ACRE

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Number	Item	Unit
3.2.2	Mowing w/ conditioner	ACRE
3.2.3	Raking Hay	ACRE
3.3.1	Manure Spreading (semisolid, min. 10 acres)	ACRE
3.3.2	Lime Spreading	ACRE
3.3.3	Fertilizer Spreading (Bulk)	ACRE
3.3.4	Spraying for Weed Control	ACRE
3.4.1	Tractor w/ Implement (custom field work)	HR.
4.1.1	Diversion or Waterway, Grassed	L.F.
4.1.2	Diversion or Waterway, Grassed, w/ Erosion Control Netting	L.F.
4.1.3	Diversion or Waterway, Stone Centered	L.F.
4.2.4	Riser, perforated, for diversion or terrace 6" SDR 35	EA.
4.2.5	Riser, perforated, for diversion or terrace 8" SDR 35	EA.
4.2.6	Riser, perforated, for diversion or terrace 10" SDR 35	EA.
4.3.1	Grate, 24" dia., Cast Iron w/ Ears	EA.
4.4.1	Bar Guard, 12" Heavy Duty, Trash Rack	EA.
4.4.2	Bar Guard, 18" Heavy Duty, Trash Rack	EA.
4.4.3	Bar Guard, 24" Heavy Duty, Trash Rack	EA.
5.1.1	Borrow, 1.5" Crushed Stone, 5 mile round trip	C.Y.
5.1.2	Borrow, 1.5" Crushed Stone, 10 mile round trip	C.Y.
5.1.3	Borrow, 1.5" Crushed Stone, 20 mile round trip	C.Y.
5.1.4	Borrow, 3/4" Crushed Stone, 5 mile round trip	C.Y.
5.1.5	Borrow, 3/4" Crushed Stone, 10 mile round trip	C.Y.
5.1.6	Borrow, 3/4" Crushed Stone, 20 mile round trip	C.Y.
5.1.7	Borrow, Bank Run Gravel, 5 mile round trip	C.Y.
5.1.8	Borrow, Bank Run Gravel, 10 mile round trip	C.Y.
5.1.9	Borrow, Bank Run Gravel, 20 mile round trip	C.Y.
5.1.10	Borrow, Common-incl. Clay, 5 mile round trip	C.Y.
5.1.11	Borrow, Common-incl. Clay, 10 mile round trip	C.Y.
5.1.12	Borrow, Common-incl. Clay, 20 mile round trip	C.Y.
5.1.13	Borrow, Washed Mfg. Sand, 5 mile round trip	C.Y.
5.1.14	Borrow, Washed Mfg. Sand, 10 mile round trip	C.Y.
5.1.15	Borrow, Washed Mfg. Sand, 20 mile round trip	C.Y.
5.1.16	Borrow, Bank Sand, 5 mile round trip	C.Y.



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**Unit Definitions:**    **S.Y.** (Square Yards),    **M.S.F.** ( 1,000 Square Feet),    **S.F.** (Square Feet),    **L.F.** (Linear Feet),    **C.Y.** (Cubic Yard),    **EA.** (Each),    **HR.**  
**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
5.1.17	Borrow, Bank Sand, 10 mile round trip	C.Y.
5.1.18	Borrow, Bank Sand, 20 mile round trip	C.Y.
5.1.19	Borrow, 3/4" Plant Mix, 5 mile round trip	C.Y.
5.1.20	Borrow, 3/4" Plant Mix, 10 mile round trip	C.Y.
5.1.21	Borrow, 3/4" Plant Mix, 20 mile round trip	C.Y.
5.1.25	Borrow, Rock RipRap, 5 mile round trip	C.Y.
5.1.26	Borrow, Rock RipRap, 10 mile round trip	C.Y.
5.1.27	Borrow, Rock RipRap, 20 mile round trip	C.Y.
5.1.28	Topsoil, weed free, spread with 200 H.P. dozer, includes load and haul, 2 miles RT.	C.Y.
5.2.1	4" Perf. Field Drain, 4-6' deep, bankrun gravel, incl. Mob	L.F.
5.2.2	4" Perf. Field Drain, 4-6' deep, geotextile, bankrun gravel, incl. Mob	L.F.
5.2.4	4" Perf. Field Drain, 7-9' deep, bankrun gravel, incl. Mob	L.F.
5.2.5	6" Perf. Field Drain, 4-6' deep, bankrun gravel, incl. Mob	L.F.
5.2.6	6" Perf. Field Drain, 4-6' deep, geotextile, bankrun gravel, incl. Mob	L.F.
5.2.7	6" Perf. Field Drain, 7-9' deep, bankrun gravel, incl. Mob	L.F.
5.2.9	French drain, Roof drain	L.F.
5.2.10	4" Perf. Footing Drain, stone, geotextile	L.F.
5.2.11	4" Perf. Field Drain, 7-9' deep, geotextile, bankrun gravel, incl. Mob	L.F.
5.2.12	6" Perf. Field Drain, 7-9' deep, geotextile, bankrun gravel, incl. Mob	L.F.
5.2.13	4" Perf. Field Drain, 12' deep, bankrun gravel, incl. Mob	L.F.
5.2.14	4" Perf. Field Drain, 12' deep, geotextile, bankrun gravel, incl. Mob	L.F.
5.3.1	Hauling, Borrow, 2 mi. RT, inc. loading & spread w/ dozer, no mat. \$	C.Y.
5.3.2	Hauling, Borrow, 5 mi. RT, inc. loading & spread w/ dozer, no mat. \$	C.Y.
5.3.3	Hauling, Borrow, 10 mi. RT, inc. loading & spread w/ dozer, no mat. \$	C.Y.
5.3.4	Hauling, Borrow, 20 mi. RT, inc. loading & spread w/ dozer, no mat. \$	C.Y.
6.1.5	Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	C.Y.
6.1.6	Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with sheepsfoot roller	C.Y.
6.1.7	Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	C.Y.
6.2.1	Excavating, bulk, open site, bank measure, sand & gravel, 105 H.P., 150' haul, dozer	C.Y.
6.2.2	Excavating, bulk, open site, bank measure, common earth, 105 H.P. dozer, 150' haul	C.Y.
6.2.3	Excavating, bulk, open site, bank measure, clay, 105 H.P. dozer, 150' haul	C.Y.
6.2.4	Excavating, bulk, open site, bank measure, sand & gravel, 105 H.P., 300' haul, dozer	C.Y.
6.2.5	Excavating, bulk, open site, bank measure, common earth, 105 H.P. dozer, 300' haul	C.Y.

## Vermont 2006 Component Cost Data (Rutland Zip Code Area 057)

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
6.2.6	Excavating, bulk, open site, bank measure, clay, 105 H.P. dozer, 300' haul	C.Y.
6.2.7	Excavating, bulk, open site, bank measure, sand & gravel, 200 H.P., 150' haul, dozer	C.Y.
6.2.8	Excavating, bulk, open site, bank measure, common earth, 200 H.P. dozer, 150' push	C.Y.
6.2.9	Excavating, bulk, open site, bank measure, clay, 200 H.P. dozer, 150' push	C.Y.
6.2.10	Excavating, bulk, open site, bank measure, sand & gravel, 200 H.P., 300' haul, dozer	C.Y.
6.2.11	Excavating, bulk, open site, bank measure, common earth, 200 H.P. dozer, 300' push	C.Y.
6.2.12	Excavating, bulk, open site, bank measure, clay, 200 H.P. dozer, 300' push	C.Y.
6.2.13	Excavating, structural, bank measure, common earth, 1 C.Y. bucket, hydr. backhoe	C.Y.
6.2.14	Excavating, bulk, 1 C.Y. capacity = 75 C.Y./hr, backhoe, hydraulic, crawler mounted	C.Y.
6.2.15	Excavating, bulk, 1-1/2 C.Y. cap. = 100 C.Y./hr, backhoe, hydraulic, crawler mounted	C.Y.
6.2.16	Excavating, bulk, 2 C.Y. cap. = 130 C.Y./hour, backhoe, hydraulic, crawler mounted	C.Y.
6.2.17	Excavating, trench, common earth, 1' to 4' deep, 1/2 C.Y. cap., tractor loader/backhoe	C.Y.
6.2.18	Excavating, trench, 4' to 6' deep, 5/8 C.Y. bucket, hydraulic backhoe	C.Y.
6.2.19	Excavating, trench, 4' to 6' deep, 3/4 C.Y. bucket, expose pipe, hydraulic backhoe	C.Y.
6.2.20	Excavating, trench, 6' to 10' deep, 3/4 C.Y. bucket, hydraulic backhoe	C.Y.
6.2.21	Excavating, trench, 6' to 10' deep, 1 C.Y. bucket, hydraulic backhoe	C.Y.
6.2.22	Excavating, trench, 10' to 14' deep, 1 C.Y. bucket, hydraulic backhoe	C.Y.
6.3.1	Excavation-Rock, blasting, <100 C.Y.	C.Y.
6.3.2	Excavation-Rock, drilling, blasting, hauling away 4 mi RT, >225 C.Y.	C.Y.
6.3.3	Excavation-Rock, ripped	C.Y.
6.3.4	Drilling and blasting rock, open face, under 1500 C.Y.	C.Y.
6.3.5	Drilling and blasting, only, rock, blasting mats are required, under 1500 C.Y.	C.Y.
6.4.0	Stone Wall, Removal (w/ Archaeologist Approval)	L.F.
6.4.1	Disposal, Obstruction Removal	C.Y.
6.5.0	Loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 300' haul	C.Y.
6.5.1	Loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	C.Y.
6.5.2	Loam or topsoil, F.E. loader, remove, stockpile on site, spread frm pile to rough grade	C.Y.
6.5.3	Stripping and stockpiling, topsoil, clay, dry and soft, adverse conditions, 200 H.P. dozer	C.Y.
6.5.4	Stripping and stockpiling, topsoil, clay, dry and soft, ideal conditions, 200 H.P. dozer	C.Y.
6.5.5	Stripping, topsoil, sandy loam, adverse cond., 200 H.P. dozer, stripping and stockpile	C.Y.
6.5.6	Stripping, topsoil, sandy loam, ideal conditions, 200 H.P. dozer, stripping & stockpile	C.Y.
6.6.0	Compaction, structural, 5 tons, steel wheel tandem roller	Hr.
6.6.1	Compaction, structural, 10 tons, steel wheel tandem roller	Hr.

## Vermont 2006 Component Cost Data (Rutland Zip Code Area 057)

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
6.6.2	Compaction, structural, common fill, 8" lifts, sheepsfoot or wobbly wheel roller	C.Y.
6.6.3	Compaction, structural, common fill, 8" lifts, vibratory plate	C.Y.
6.7.1	Leaching Camber - incl. perf. Pipe, no exc. Or backfill	L.F.
6.7.2	Distribution box - concrete, 7 outlets, excludes excavation or piping	Ea.
6.7.3	Crushed stone for trench, 3/4", excludes excavation, piping & fabric	C.Y.
6.7.4	Pipe - PVC, Perforated, 4" diameter, SDR 35, excludes excavation or backfill	L.F.
6.7.5	Trench for disposal field, 4' wide, excavation w/ backhoe	L.F.
6.8.0	Soil testing, Hydrometer analysis	Ea.
6.8.1	Soil testing, Specific gravity	Ea.
6.8.2	Soil testing, Sieve analysis, washed	Ea.
6.8.3	Soil testing, Moisture content	Ea.
6.8.4	Soil testing, Atterberg limits, liquid and plastic limits	Ea.
6.8.5	Soil testing, permeability, variable or constant head, undisturbed	Ea.
6.8.6	Soil testing, Proctor compaction, 4" standard mold	Ea.
6.8.7	Soil testing, Proctor compaction, 6" modified mold	Ea.
6.8.8	Soil Test, gradation, atterberg, proctor & permeability	EA.
6.8.9	Test pits, loader/backhoe, heavy soil	C.Y.
6.8.10	Test pits, subsurface exploration, mobilization	Mile
6.8.11	Test pits, loader/backhoe, light soil	C.Y.
6.8.12	Test pits - for waste storage pond	EA.
6.8.13	Soil Testing, waste storage pond	EA.
6.8.14	Soil testing, permeability test, double ring infiltrometer	Ea.
6.9.0	Backhoe, 40-45 Hp, 1/2 CY Capacity	HR.
6.9.1	Backhoe, Large, 100 Hp, 3/4 C.Y. Capacity	HR.
6.9.2	Dozer, Small - Finish Work, 75 Hp	HR.
6.9.3	Dozer, Medium, 105 Hp	HR.
6.9.4	Dozer, Medium, 140 Hp	HR.
6.9.5	Dozer, Large, 200 Hp	HR.
6.9.6	Excavator, Small, 1/2 CY Bucket	HR.
6.9.7	Excavator, Medium, 1.0 CY Bucket	HR.
6.9.8	Excavator, Large, 1.5 CY Bucket	HR.
6.9.10	Excavator, Medium, 3/4 CY Bucket	HR.
6.9.11	Skid Steer Loader, Large, 78 Hp, 1.0 C.Y. Capacity	HR.

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
6.9.12	Dump Truck, tandum axle, 12 ton capacity	HR.
6.9.13	Dump Truck, tri-axle, 12 ton capacity	HR.
6.9.14	Dump Truck, off-road, 25 ton capacity	HR.
6.10.1	Mob. or demob. dozer, loader, backhoe or excavator, 70 H.P. to 250 H.P., up to 50 mi.	Ea.
6.10.2	Mob. or demob., dozer, loader, backhoe or excavator, above 250 H.P., up to 50 miles	Ea.
6.10.3	Mobilization or demobilization, for small equipment on flatbed trailer, maximum	Ea.
6.11.1	Dewatering, pumping, 8 hr., attended 2 hours per day, 2" diaphragm pump	Day
6.11.2	Dewatering, pumping, 8 hr., attended 8 hours per day, 2" diaphragm pump	Day
6.12.1	Bedding, for pipe and conduit, crushed or screened bank run gravel, exc. compaction	C.Y.
6.12.2	Bedding, for pipe and conduit, crushed stone, 3/4" to 1-1/2", excludes compaction	C.Y.
6.12.3	Bedding, for pipe and conduit, sand, dead or bank, excludes compaction	C.Y.
6.12.4	Bedding, for pipe and conduit, compacting bedding in trench	C.Y.
6.13.1	Labor, unskilled	HR.
6.13.2	Labor, unskilled w/ chainsaw	HR.
7.1.2	Fence, Electric, 2 strand	L.F.
7.1.4	Fence, Wood, 3 board	L.F.
7.1.5	Fence, Steel post w/ 2 steel rails	L.F.
7.1.6	Fence, Barbed Wire, 3 strand	L.F.
7.1.7	Fence, Barbed Wire, 4 strand	L.F.
7.1.8	Fence, Barbed Wire, 5 strand	L.F.
7.1.9	Fence, High Tensile, 2 strand	L.F.
7.1.10	Fence, High Tensile, 3 strand	L.F.
7.1.11	Fence, High Tensile, 4 strand	L.F.
7.1.12	Fence, High Tensile, 5 strand	L.F.
7.1.13	Fence, High Tensile, 6 strand	L.F.
7.1.14	Fence, High Tensile, 6 strand, straight & long lengths (field fencing)	L.F.
7.1.15	Fence, Woven Wire	L.F.
7.1.16	Fencing, 19 ga.Stainless Steel Wire, Portable Fencing	L.F.
7.1.17	Fencing, Deer Net, 8ft - material cost only	L.F.
7.1.18	Fencing, Poly Net (sheep & chickens) - material cost only	L.F.
7.1.19	Fencing, Poly Wire - material cost only	L.F.
7.1.20	Fencing, Ribbon Type (horses) - material cost only	L.F.
7.1.21	Fence, Electric, portable polywire or tape w/ posts	L.F.

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
7.1.22	Brace, Corner Type, Fence	L.F.
7.1.23	Brace, End Type, Fence	L.F.
7.1.24	Charger, Fence, > 2000ft	L.F.
7.1.25	Charger, Fence, 12V Solar Powered, < 15 acres	L.F.
7.1.26	Post, Fence, Cedar 6 ft, material cost only	EA.
7.1.27	Post, Portable Fence, material cost only	EA.
7.1.28	Charger, Fence, 12V Solar Powered > 15 acres	L.F.
7.1.29	Fence, Chain Link, 5' high, 1 5/8" posts 10' o.c.	L.F.
7.1.30	Fence, Chain Link, 6' high, 1 5/8" posts 10' o.c.	L.F.
7.2.1	Gate, Fence, light duty	L.F.
7.2.2	Gate, Fence, heavy duty	L.F.
7.2.3	Gate, Fence, Panel Type	EA.
7.2.4	Gate, Fence, Spring Type, 2 Wire	EA.
10.1.1	Geotextile - Non Woven (drainage), small areas	S.Y.
10.1.2	Geotextile fabric, reinforcement, 6 oz/sy, large areas	S.Y.
10.1.3	Geotextile - Woven (reinforcement), small areas	S.Y.
10.1.4	Geotextile - Non Woven (drainage), small areas	S.Y.
10.2.2	Geojute Erosion Control Blanket	S.Y.
10.2.3	Straw Erosion Control Blanket	S.Y.
10.3.3	Liner, pond, LLDPE, 40 mil., includes geotextile, up to two boots & field welding	S.F.
10.3.4	Liner, pond, LLDPE, 60 mil., includes geotextile, up to two boots & field welding	S.F.
10.4.0	Erosion control, plastic netting, 20 mil, 2" x 1" mesh, stapled	S.Y.
10.4.1	Erosion control, silt fence, polypropylene, adverse conditions, 3' high	L.F.
10.4.2	Erosion control, silt fence, polypropylene, ideal conditions, 3' high	L.F.
10.5.0	Compost cover	S.Y.
11.1.0	Wall Insulation, Rigid, expanded polystyrene, 1" thick, R3.85	S.F.
11.1.1	Wall Insulation, Rigid, expanded polystyrene, 2" thick, R7.69	S.F.
11.1.2	Wall Insulation, Rigid, expanded polystyrene, 3" thick, R11.49	S.F.
12.1.1	Lane, 8' wide, strip, geotextile fabric, 8" gravel - incl. Mob.	L.F.
12.1.2	Lane, 8' wide, strip, geotextile fabric, 8" gravel	L.F.
12.1.3	Lane, 8' wide, strip, geotextile fabric, 12" gravel - incl. Mob.	L.F.
12.1.4	Lane, 8' wide, strip, geotextile fabric, 12" gravel	L.F.
12.1.5	Walkway, 4' wide, strip, geotextile fabric, 8" stone, 360'/day	L.F.

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

### PL-566

Number	Item	Unit
12.3.1	Lane, 12' wide, strip, geotextile fabric, 8" gravel - incls. Mob.	L.F.
12.3.2	Lane, 12' wide, strip, geotextile fabric, 8" gravel	L.F.
12.3.3	Access Road, 12' wide, strip, geotextile fabric, 12" gravel - incls. Mob.	L.F.
12.3.4	Access Road, 12' wide, strip, geotextile fabric, 12" gravel	L.F.
12.3.5	Access Road, 12' wide, strip, geotextile fabric, 18" gravel - incls. Mob.	L.F.
12.3.6	Access Road, 12' wide, strip, geotextile fabric, 18" gravel	L.F.
12.3.7	Access Road, 16' wide, strip, geotextile fabric, 12" gravel - incls. Mob.	L.F.
12.3.8	Access Road, 16' wide, strip, geotextile fabric, 12" gravel	L.F.
12.3.9	Access Road, 16' wide, strip, geotextile fabric, 18" gravel - incls. Mob.	L.F.
12.3.10	Access Road, 16' wide, strip, geotextile fabric, 18" gravel	L.F.
13.1.1	Horizontal boring, 24" diameter casing, includes casing only, 100' min., exc. pits	L.F.
13.1.2	Horizontal boring, 36" diameter casing, includes casing only, 100' min., exc. pits	L.F.
13.1.4	Horizontal boring, 48" diameter casing, includes casing only, 100' min., exc. pits	L.F.
13.1.5	For Ledge, horizontal boring, 100' minimum, ADD	L.F.
14.1.2	Pipe, CMP, 6", 18ga., material only	L.F.
14.1.4	Pipe, CMP, 8", 18ga., material only	L.F.
14.1.6	Pipe, CMP, 10", 16ga., material only	L.F.
14.1.8	Pipe, CMP, 12", 16ga., material only	L.F.
14.1.10	Pipe, CMP, 15", 16ga., material only	L.F.
14.1.12	Pipe, CMP, 18", 16ga., material only	L.F.
14.1.14	Pipe, CMP, 21", 16ga., material only	L.F.
14.1.16	Pipe, CMP, 24", 16ga., material only	L.F.
14.1.18	Pipe, CMP, 30", 14ga., material only	L.F.
14.1.20	Pipe, CMP, 36", 14ga., material only	L.F.
14.1.22	Pipe, CMP, 42", 12ga., material only	L.F.
14.1.24	Pipe, CMP, 48", 12ga., material only	L.F.
14.1.26	Pipe, CMP, 60", 10ga., material only	L.F.
14.1.29	Pipe, CMP, 72", 10ga., material only	L.F.
16.1.0	Pipe, Corrugated Plastic Tubing, 4", laid in trench - no excavation	L.F.
16.1.1	Pipe, Corrugated Plastic Tubing, 6", laid in trench - no excavation	L.F.
16.1.2	Pipe, HDPE 6", SOIL TIGHT, material only	L.F.
16.1.3	Pipe, HDPE 8", SOIL TIGHT, material only	L.F.
16.1.4	Pipe, HDPE 10", SOIL TIGHT, material only	L.F.

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Number	Item	Unit
16.1.5	Pipe, HDPE 12", SOIL TIGHT, material only	L.F.
16.1.6	Pipe, HDPE 15", SOIL TIGHT, material only	L.F.
16.1.7	Pipe, HDPE 18", SOIL TIGHT, material only	L.F.
16.1.8	Pipe, HDPE 24", SOIL TIGHT, material only	L.F.
16.1.10	Pipe, HDPE 30", SOIL TIGHT, material only	L.F.
16.1.12	Pipe, HDPE 36", SOIL TIGHT, material only	L.F.
16.1.13	Pipe, HDPE 48", SOIL TIGHT, material only	L.F.
16.2.0	Pipeline, Black Poly, 1/2", 125 psi, material cost only	L.F.
16.2.1	Pipeline, Black Poly, 3/4", 160 psi, material cost only	L.F.
16.2.2	Pipeline, Black Poly, 1", 160 psi, material cost only	L.F.
16.2.3	Pipeline, Black Poly, 1-1/4", 160 psi, material cost only	L.F.
16.2.4	Pipeline, Black Poly, 1-1/2", 160 psi, material cost only	L.F.
16.2.5	Pipeline, Black Poly, 2", 160 psi, material cost only	L.F.
17.1.5	Pipe, PVC, SDR 35, 4" Dia., Excav. And Backfill Included (local cost)	L.F.
17.1.6	Pipe, PVC, SDR 35, 6" Dia., Excav. And Backfill Included (local cost)	L.F.
17.1.7	Pipe, PVC, SDR 35, 8" Dia., Excav. And Backfill Included (local cost)	L.F.
17.1.8	Pipe, PVC, SDR 35, 10" Dia., Excav. And Backfill Included (local cost)	L.F.
17.1.9	Pipe, PVC, SDR 35, 12" Dia., Excav. And Backfill Included (local cost)	L.F.
17.1.10	Pipe, PVC, SDR 35, 15" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.2	Pipe, PVC, SCH. 40, 2" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.3	Pipe, PVC, SCH. 40, 3" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.4	Pipe, PVC, SCH. 40, 4" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.5	Pipe, PVC, SCH. 40, 6" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.6	Pipe, PVC, SCH. 40, 8" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.7	Pipe, PVC, SCH. 40, 10" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.8	Pipe, PVC, SCH. 40, 12" Dia., Excav. And Backfill Included (local cost)	L.F.
17.2.10	Pipe, PVC, SDR 26, 160 psi, 2" Dia., Excav. And Backfill Included	L.F.
17.2.11	Pipe, PVC, SDR 26, 160 psi, 3" Dia., Excav. And Backfill Included	L.F.
17.2.12	Pipe, PVC, SDR 26, 160 psi, 4" Dia., Excav. And Backfill Included	L.F.
17.2.13	Pipe, PVC, SDR 26, 160 psi, 6" Dia., Excav. And Backfill Included	L.F.
17.2.14	Pipe, PVC, SDR 26, 160 psi, 8" Dia., Excav. And Backfill Included	L.F.
17.2.15	Pipe, PVC, SDR 26, 160 psi, 10" Dia., Excav. And Backfill Included	L.F.
17.2.16	Pipe, PVC, SDR 26, 160 psi, 12" Dia., Excav. And Backfill Included	L.F.



## Vermont 2006 Component Cost Data (Rutland Zip Code Area 057)

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
17.2.17	Pipe, PVC, SDR 26, 160 psi, 16" Dia., Excav. And Backfill Included	L.F.
17.3.0	Ball Valve, Socket, 1-1/2", PVC	EA.
17.3.1	Ball Valve, Socket, 2", PVC	EA.
17.3.2	Ball Valve, True Union, Socket, 1-1/2"	EA.
17.3.3	Ball Valve, True Union, Socket, 2"	EA.
17.3.4	Ball Valve, True Union, Socket, 2-1/2"	EA.
17.3.5	Ball Valve, True Union, Socket, 3"	EA.
17.3.6	Ball Valve, 3 Way, True Union, Socket, 1-1/2"	EA.
17.3.7	Ball Valve, 3 Way, True Union, Socket, 2"	EA.
17.4.0	Headwall & Rodent Guard, 4"-8" pipe	EA.
18.1.0	Pipe, Steel, Sch. 40, 2" dia.,material cost only	L.F.
18.1.1	Pipe, Steel, Sch. 40, 3" dia.,material cost only	L.F.
18.1.2	Pipe, Steel, Sch. 40, 4" dia.,material cost only	L.F.
18.1.3	Pipe, Steel, Sch. 40, 6" dia.,material cost only	L.F.
18.2.0	16" dia. Pipe, Steel, Waste transfer, installed w/ sand envelope	L.F.
18.2.1	16" dia. Elbow, Steel, 15 or 30 deg., mat. cost only	EA.
18.2.3	16" dia. Elbow, Steel, 45 or 60 deg., mat. cost only	EA.
18.2.4	16" dia. Elbow, Steel, 75 or 90 deg., mat. cost only	EA.
18.2.5	Guillotine Safety Valve, 16" dia. , material cost only	EA.
18.2.6	Guillotine Safety Valve, 12" dia. , material cost only	EA.
18.2.7	Guillotine Safety Valve, 8" dia. , material cost only	EA.
18.2.8	Guillotine Safety Valve, 6" dia. , material cost only	EA.
18.3.0	24" dia. Pipe, Steel, Waste transfer, installed w/ sand envelope	L.F.
18.3.1	24" dia. Elbow, Steel, 18 or 36 deg., mat. cost only	EA.
18.4.0	30" dia. Pipe, Steel, Waste transfer, installed w/ sand envelope	L.F.
18.4.1	30" dia. Elbow, Steel, 18 or 36 deg., mat. cost only	EA.
20.1.1	Rip-rap, random, broken stone, machine placed for slope protection	C.Y.
20.1.2	Rip-rap, random, broken stone, 18" min. thickness, machine placed slope protection	S.Y.
20.1.4	Gabions, galvanized steel mesh mats or boxes, stone filled, 9" deep	S.Y.
20.1.5	Gabions, galvanized steel mesh mats or boxes, stone filled, 12" deep	S.Y.
20.1.6	Gabions, galvanized steel mesh mats or boxes, stone filled, 18" deep	S.Y.
20.1.7	Gabions, galvanized steel mesh mats or boxes, stone filled, 36" deep	S.Y.
20.2.0	Tree Revetment, <20 ft length, single row	L.F.



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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
20.2.1	Tree Revetment, <20 ft length, double row	L.F.
20.2.2	Tree Revetment, <20 ft length, double row, w/ live stakes/cuttings	L.F.
20.2.3	Live Stakes, installed	EA.
20.2.4	Facines/Wattles, installed	L.F.
20.2.5	Joint Plantings, installed	EA.
20.2.6	6" Duckbill Anchors, material cost only	EA.
20.2.7	1/4" Clamp, material cost only	EA.
20.2.8	1/4" Aircraft Cable, material cost only	L.F.
20.2.9	Swaging Tool, material cost only	EA.
20.2.10	Duckbill Anchor, 9ft Cable & 4 Clamps (1 Unit), material cost only	EA.
20.2.11	Lunker Boxes, installed	EA.
20.2.12	Stream Barb/Rock Vein	C.Y.
21.1.0	Aluminum gutters, stock units, plain, 5" box, .027" thick	L.F.
21.1.1	Aluminum gutters, stock units, plain, 5" box, .032" thick	L.F.
21.2.0	Roof Structure - hoop type, truss arch w/ fabric. Installed	S.F.
21.2.1	Roof Structure - pole type w/ wood truss & metal roof. Installed	S.F.
22.2.0	Manhole, Precast, 4' dia, Cover, delivered, no excavation	EA.
22.2.1	Manhole, Precast, 4' dia, Section, delivered, no excavation	L.F.
22.2.2	Manhole, Precast, 4' dia, Base, delivered, no excavation	EA.
22.3.0	Manhole, Precast, 5' dia, Cover, delivered, no excavation	EA.
22.3.1	Manhole, Precast, 5' dia, Section, delivered, no excavation	L.F.
22.3.2	Manhole, Precast, 5' dia, Base, delivered, no excavation	EA.
22.4.0	Manhole, Precast, 6' dia, Cover, delivered, no excavation	EA.
22.4.1	Manhole, Precast, 6' dia, Section, delivered, no excavation	L.F.
22.4.2	Manhole, Precast, 6' dia, Base, delivered, no excavation	EA.
22.5.0	Well tile, Precast, 3' dia, Base, delivered, no excavation	EA.
22.5.1	Well tile, Precast, 3' dia, Cover, delivered, no excavation	EA.
22.5.2	Well tile, Precast, 3' dia, Section, delivered, no excavation	L.F.
23.1.0	Lumber, pressure treated , 2" x 10"	M.B.F.
23.1.1	Lumber, pressure treated , 2" x 12"	M.B.F.
23.1.2	Lumber, pressure treated , 2" x 4"	M.B.F.
23.1.3	Lumber, pressure treated , 2" x 6"	M.B.F.
23.1.4	Lumber, pressure treated , 2" x 8"	M.B.F.

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
23.1.5	Lumber, pressure treated , 4" x 4"	M.B.F.
23.1.6	Lumber, pressure treated , 4" x 6"	M.B.F.
23.1.7	Lumber, pressure treated , 4" x 8"	M.B.F.
23.1.8	Framing, porch or deck, treated lattice panel, 4' x 8'	S.F.
23.2.0	Lumber, pressure treated, 6" x 6"	B.F.
23.2.1	Lumber, pressure treated, 8 "x 8"	B.F.
23.5.1	Hopper Building, wood structure, no concrete included (EACH)	EA.
23.5.2	Hopper Building, w/ slab, frost wall & exhaust fan (per SF)	S.F.
23.5.3	Fan, Exhaust Ventilation, in hopper bldg or barn	EA.
23.5.5	Lattice, PT , 4'x8'	SHEET
23.5.6	Water Facility, 70 gal., non-insulated	EA.
23.5.7	Water Tank Valve, w/ mounting brackets	EA.
24.1.6	Pipe, HDPE 24" WATER TIGHT - incl. excav.& initial backfill w/ stone	L.F.
24.1.12	Pipe, HDPE 30" WATER TIGHT - incl. excav.& initial backfill w/ stone	L.F.
24.1.16	Pipe, HDPE 36" WATER TIGHT - incl. excav.& initial backfill w/ stone	L.F.
24.1.23	Elbow, HDPE 24" WATER TIGHT - material \$\$ only	EA.
24.1.24	Elbow, HDPE 30" WATER TIGHT - material \$\$ only	EA.
24.1.25	Elbow, HDPE 36" WATER TIGHT - material \$\$ only	EA.
24.1.26	Pipe, HDPE 24", WATER TIGHT, material \$\$ only	L.F.
24.1.27	Pipe, HDPE 30", WATER TIGHT, material \$\$ only	L.F.
24.1.28	Pipe, HDPE 36", WATER TIGHT, material \$\$ only	L.F.
24.1.29	Elbow, HDPE 24" WATER TIGHT - incl. excav.& initial backfill w/ stone	E.A.
24.1.30	Elbow, HDPE 30" WATER TIGHT - incl. excav.& initial backfill w/ stone	E.A.
24.1.31	Elbow, HDPE 36" WATER TIGHT - incl. excav.& initial backfill w/ stone	E.A.
24.3.1	Manure Pump, Agitator/Unload, trailer type, PTO type	EA.
24.3.4	Manure Pump, Agitator/Unload, vertical wall type, 3pt hitch, PTO type	EA.
24.3.5	Manure Pump, Auger, w/ electric motor	EA.
24.3.6	Manure Pump, 4" Electric, w/ ~10hp motor	EA.
24.4.1	Manure, Elevator, 40ft	EA.
24.4.2	Manure, Elevator, 60ft	EA.
24.5.1	Manure Pump, Air System	EA.
24.5.3	Manure Pump, Hollow Piston Type, no conc. work , inc. minimal wiring	EA.
24.5.4	Manure Agitator, propeller w/ electric motor	EA.

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
24.5.7	Manure Pump, Solid Piston Type, no conc. work , inc. minimal wiring	EA.
24.6.0	Septic Tank, Precast, 1000gal, exc. & bkfill incl.	EA.
24.6.1	Septic Tank, Precast, 1500gal, exc. & bkfill incl.	EA.
24.6.2	Septic Tank, Precast, 2000gal, exc. & bkfill incl.	EA.
24.6.3	Septic Tank, Precast, Heavy Duty, 1000gal, exc. & bkfill incl.	EA.
24.6.4	Septic Tank, Precast, Heavy Duty, 1500gal, exc. & bkfill incl.	EA.
24.6.5	Septic Tank, Precast, Heavy Duty, 2000gal, exc. & bkfill incl.	EA.
24.6.6	Grease Trap, 1000gal, exc. & bkfill incl., w/ 8" effluent filter	EA.
24.6.7	Pump Station, Precast, 1000gal, exc. & bkfill incl., small pump included	EA.
24.6.8	Pump Station, Precast, heavy duty, 1000gal, exc. & bkfill incl., no pump	EA.
24.6.9	Pump Station, Precast, heavy duty, 1500gal, exc. & bkfill incl., no pump	EA.
24.6.10	Pump Station, Precast, heavy duty, 2000gal, exc. & bkfill incl., no pump	EA.
24.6.16	Floculation Tank, milkhouse	EA.
24.7.2	Sewage Pump, 2" solids handling, 1.5 - 2hp	EA.
24.7.3	Sewage Pump, 3" Agitator Type, vertical shaft, 3 - 5hp motor	EA.
24.7.4	Sewage Pump, 2" solids handling, 0.5 - 1hp	EA.
24.7.5	Sewage Pump, 3" solids handling, 1.5 - 5hp	EA.
24.7.7	Sewage Pump, 2" solids handling, stainless steel, 0.5 - 1hp	EA.
24.7.8	Silage Leachate Screen	EA.
24.7.9	Silage Leachate Orifice	EA.
24.7.11	Hydraulic Transfer Pump	EA.
24.8.1	Infiltration trench - excav., stone, pipe, geotextile & backfill included	L.F.
24.9.0	Grate, Safety, over hopper	EA.
24.11.1	Guillotine Inlet Valve, Gravity System, 30" or 36" Pipe, fabricated	EA.
24.12.0	Pushoff Safety Stop	EA.
24.12.1	Safety Signs, Structure or Hopper	EA.
24.12.2	Safety Signs, Structure, attached to fence	EA.
25.1.0	Hydrant, Frost Free - installed	EA.
25.1.1	Hydrant, Frost Free Hydrant - material cost only	EA.
25.1.2	Float Valve Assembly	EA.
25.1.3	"T" Post, 8' galvanized	EA.
25.1.4	Clearing old Fenceline	L.F.
25.1.6	Watering Facility (614) - 50 gals w/ float	EA.

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Number	Item	Unit
25.2.1	Pipe, polyethylene, 125 psi, 1/2", hung on wall or buried 4' trench	L.F.
25.2.2	Pipe, polyethylene, 160 psi, 3/4", hung on wall or buried 4' trench	L.F.
25.2.3	Pipe, polyethylene, 160 psi, 1", hung on wall or buried 4' trench	L.F.
25.2.4	Pipe, polyethylene, 160 psi, 1-1/2", hung on wall or buried 4' trench	L.F.
25.2.5	Pipe, polyethylene, 160 psi, 1-1/4", hung on wall or buried 4' trench	L.F.
25.2.6	Pipe, polyethylene, 160 psi, 2", hung on wall or buried 4' trench	L.F.
25.3.0	Water Facility, 100 gal., non-insulated	EA.
25.3.1	Water Facility, 1000 gal., non-insulated, material cost only	EA.
25.3.2	Water Facility, 15 gal., insulated	EA.
25.3.3	Water Facility, 20 gal., insulated	EA.
25.3.4	Water Facility, 300 gal., non-insulated	EA.
25.3.5	Water Facility, 50 gal., non-insulated	EA.
25.4.1	Well, casing	V.F.
25.4.2	Well, submersible pump	EA.
25.4.5	Well, drilling	V.F.
25.5.0	Heat Tube	EA.
25.5.1	Valve, Vacuum or Pressure Relief	EA.
25.5.2	Valve, Quick Coupler (male + female)	EA.
25.5.3	Coupling/Hydrant	EA.
25.6.1	Pump, Electric, 5hp	EA.
25.6.2	Pump, HydroRam, 1"	EA.
25.6.3	Pump, HydroRam, 1-1/2"	EA.
25.6.4	Pump, HydroRam, 2"	EA.
25.6.5	Pump, Nose Operated	EA.
25.6.6	Pump, Permanently Mounted	EA.
25.6.7	Pump, Solar, 2 panels	EA.
27.1.1	Apple Tree Release and Pruning	ACRE
27.1.2	Brushhogging, light duty	ACRE
27.1.3	Brushhogging, heavy duty	ACRE
27.1.4	Fencing Beavers (4' chicken wire)	L.F.
27.1.5	Installation of beaver pipes	EA.
27.1.6	Lunker box (installed)	EA.
27.1.7	Mast Tree Release	ACRE

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**L.C.Y.** (100 Cubic Yards),    **V.F.** (Vertical Feet),    **B.F.** (Board Feet),    **M.B.F.** (1,000 Board Feet)

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Number	Item	Unit
27.1.8	Vegetation Restoration – herbaceous plants (2" plugs)	EA.
27.1.9	Vegetative Restoration – wetland seeding	ACRE
27.1.10	Signs - WHIP Program	EA.
27.1.11	Brushhogging, extreme duty, up to 8" diameter trees	ACRE
28.1.1	Retain. walls, stone filled gabions, galv., 33< slope embank., 3' w, 6' h, inc. backfill	L.F.
28.1.2	Retain. walls, stone filled gabions, hwy surcharge, 3' W, 6' L, 3' H, inc. backfill	L.F.
28.1.3	Retain. walls, stone filled gabions, galv., 33< slope embank., 3' W, 9' H, inc. backfill	L.F.
28.1.4	Retain.walls, stone filled gabions, galv., hwy surcharge, 3' W, 9' L, 3' H, inc. backfill	L.F.
28.1.5	Retain. walls, stone filled gabions, galv., 33< slope embank., 3' W, 12' H, inc. backfill	L.F.
28.1.6	Retain. walls, stone filled gabions, galv., hwy surcharge, 3' W, 12' L, 3' H, inc. backfill	L.F.
29.1.0	Fuel Tank, steel, above grd, single wall, 275 gal, incl. cradles, coating & fittings	Ea.
29.1.1	Fuel Tank, steel, above grd, single wall, 550 gal, incl. cradles, coating & fittings	Ea.
29.1.2	Fuel Tank, steel, above grd, single wall, 1,000 gal, incl. cradles, coating & fittings	Ea.
29.1.3	Fuel Tank, steel, above grd, single wall, 1,500 gal, incl. cradles, coating & fittings	Ea.
29.1.4	Fuel Tank, steel, above grd, single wall, 2,000 gal, incl. cradles, coating & fittings	Ea.
29.1.5	Fuel Tank, steel, above grd, double wall, 500 gal, incl. cradles, coating & fittings	Ea.
29.1.6	Fuel Tank, steel, above grd, double wall, 2,000 gal, incl. cradles, coating & fittings	Ea.
29.1.7	Fuel Storage Struc. 275 gal, - septic tank, posts, roof & lattice	E.A.
29.1.8	Fuel Storage Struc. 500 or 550gal, - septic tank, posts, roof & lattice	E.A.
29.1.9	Fuel Storage Struc. 1000gal, - septic tank, posts, roof & lattice	E.A.